STI Diagnoses in Michigan, 2020

All data as of June 1, 2021

Surveillance & Epidemiology Section Division of HIV & STI Programs Bureau of Infectious Disease Michigan Department of Health and Human Services



www.michigan.gov/hivsti

Overview

Michigan's STI Surveillance Program collects, interprets, and disseminates population level data regarding persons with sexually transmitted infections. Data is collected in the Michigan Disease Surveillance System (MDSS) where reports from laboratories, private providers, and local public health give information about diagnosis, demographics, and patient behaviors. The most commonly reported sexually transmitted infections are chlamydia, gonorrhea, and syphilis. For the purposes of this report, counts of early stage and symptomatic syphilis (primary and secondary syphilis) are separated from latent diagnoses.

Key Definitions

The Basics

New Diagnoses: The number of cases newly diagnosed over a given period of time, usually a

year. The date assigned to an STI report is the onset date, or if that is missing the specimen collection date is used. If both dates are missing, the referral

date, or the date the report was referred to MDHHS, is used.

Diagnosis Rate: For every 100,000 people in a population, the number who were newly

diagnosed. This is used to compare groups.

Re-infection Rate: For the purposes of this report, re-infection is measured as being diagnosed

with the same infection at least 30 days after a prior diagnosis but no more than 12 months after the prior diagnosis. Re-infections may be transmitted by partners who were not treated when the original patient was first diagnosed.

The following measures are displayed in this report:

Count: The number of persons newly diagnosed during the given year.

Pop: The total population (census) during the given year.

Rate: The new diagnosis rate per 100,000 persons in the specified population during

the given year (count/pop x 100,000 or count/est pop x 100,000).

Risk Categories and Hierarchy

MSM: Men who have sex with men.

PWID: Persons who inject drugs.

Heterosexual: Males: men who are not MSM or PWID and reported sex with a female.

Females: females who are not a PWID and reported sex with a male

STI Diagnoses by Characteristics, 2020

		Chlamydia		Gonorrhea			P&S Sy	P&S Syphilis		yphilis	2020	
	count	rate	Re-infected	count	rate	Re-infected	count	rate	count	rate	Population ²	
Race/Ethnicity	40.650	4 264 5		42.205	000.4		474	24.4	664	40.2	4 270 202	
Black	18,658	1,361.5	12%	13,285	969.4	11%	471	34.4	661	48.2	1,370,393	
Hispanic	1,831	337.8	10% 7%	724	133.6	9%	34	6.3	92	17.0	542,105	
White	12,869 277	173.3 82.3	10%	4,768 67	64.2 19.9	7% 6%	245 7	3.3 2.1	421 12	5.7 3.6	7,425,115 336,648	
Asian/NH/PI	200	352.3	9%	66	116.3	6%	6	10.6	6	10.6		
Am Indian/AN	2,331	989.7	9%	1,071	454.7	8%	17	7.2	20	8.5	56,766 235,528	
Multi/Other Unknown	8,667	909.7	9%	3,433	454.7	-	3	7.2	24	6.5	235,526	
Race/Ethnicity by sex at birth	14,890	303.4	6%	11,988	244.3	10%	671	13.7	922	18.8	4,907,813	
Black	6,961	1,072.8	8%	7,303	1,125.5	12%	401	61.8	489	75.4	648,865	
Hispanic	490	177.9	7%	299	108.5	7%	30	10.9	70	25.4	275,468	
White	3,415	93.0	5%	1,901	51.8	6%	209	5.7	320	8.7	3,672,496	
Other	950	305.5	7%	645	207.4	8%	28	9.0	27	8.7	310,984	
Unknown	3,074	-	4%	1,840	-	4%	3	-	16	-		
Female	29,942	591.9	10%	11,425	225.8	8%	112	2.2	314	6.2	5,058,742	
Black	11,697	1,621.1	14%	5,982	829.1	9%	70	9.7	172	23.8	721,528	
Hispanic	1,341	502.9	11%	425	159.4	10%	4	1.5	22	8.3	266,637	
White	9,454	251.9	8%	2,867	76.4	8%	36	1.0	101	2.7	3,752,619	
Other	1,858	584.4	10%	559	175.8	7%	2	0.6	11	3.5	317,958	
Unknown	5,592	-	6%	1,592	-	4%	-	-	8	-		
Unknown Sex	1	-	-	1	-	-	-	-	-	-	-	
Risk*												
MSM	543		10%	631		9%	364	127.9	446	156.7	284,653*	
MSM/PWID	2	Risk	0%	3	Risk	0%	7		15		-	
PWID	47	information is	9%	36	information is	3%	9		20		-	
Heterosexual	9,503	unreliable (missing in	9%	3,872	unreliable (missing in	7%	314		396		-	
Males	2,272	77% of cases)	5%	1,343	81% of cases)	6%	214		182		-	
Females	7,231		10%	2,529		8%	100		214		-	
Undetermined	34,738		9%	18,872		9%	89		359		-	
Age at diagnosis	_											
Unknown Age	3	40.0	00/	3	c =	F0/	-		-	0.4	4 740 000	
Less than 15 years	328	18.8	9% 12%	114	6.5 640.8	5% 10%	-	-	2 36	0.1 5.7	1,748,988	
15-19 years	12,263	1,935.4 2,516.2	12%	4,060 6,804	1,012.4	10%	28 122	4.4 18.2	163	24.3	633,603 672,087	
20-24 years 25-29 years	16,911 8,166	1,190.5	7%	5,295	771.9	9%	175	25.5	236	34.4	685,946	
30-39 years	5,379	437.5	6%	4,754	386.7	7%	223	18.1	384	31.2	1,229,514	
40-49 years	1,209	103.9	3%	1,479	127.1	5%	119	10.2	232	19.9	1,163,203	
50-59 years	439	33.1	5%	680	51.2	6%	86	6.5	137	10.3	1,328,150	
60+ years	135	5.4	2%	225	9.0	8%	30	1.2	46	1.8	2,505,064	
Total	44,833			23,414	234.9		783	7.9	1,236	12.4	9,966,555	

^{1 -} P&S: Primary and Secondary Syphilis

^{2 -} Rate per 100,000 based on annual Census Bureau estimates from the American Community Survey (ACS)

^{*}MSM Census estimate is 5.8% of the male population in Michigan (Lieb S, et al 2011. Statewide Estimation of Racial/Ethnic Populations of Men Who Have Sex with Men in the U.S.)

STI Diagnoses by Local Health Jurisdiction, 2020

	Chlamy				Gonorrhea		P&S Sy	/philis	Latent Sy	Latent Syphilis		
Race/Ethnicity	count	rate	Re-infected %	count	rate	Re-infected %	count	rate	count	rate	Population ²	
Allegan County	327	275.0	8%	109	91.7	3%	2	1.7	9	7.6	118,927	
Barry-Eaton	584	339.1	8%	216	125.4	6%	7	4.1	11	6.4	172,209	
Bay County	331	323.3	9%	99	96.7	10%	2	2.0	2	2.0	102,387	
Benzie-Leelanau	46	116.2	0%	5	12.6	0%	-	0.0	3	7.6	39,595	
Berrien County	784	512.3	10%	407	266.0	8%	3	2.0	6	3.9	153,025	
Branch-Hillsdale-St. Joseph	393	262.1	6%	218	145.4	6%	1	0.7	2	1.3	149,930	
Calhoun County	712	533.0	8%	473	354.1	6%	7	5.2	13	9.7	133,580	
Central Michigan District	518	275.4	5%	125	66.5	6%	3	1.6	10	5.3	188,104	
Chippewa County	68	184.0	3%	7	18.9	0%	1	2.7	2	5.4	36,958	
Delta-Menominee	77	132.3	1%	5	8.6	0%	-	0.0	1	1.7	58,220	
Dickinson-Iron	68	188.0	10%	4	11.1	0%	-	0.0	2	5.5	36,178	
District 2	112	172.5	4%	13	20.0	0%	1	1.5	-	0.0	64,936	
District 4	113	149.5	3%	16	21.2	0%	1	1.3	-	0.0	75,605	
District 10	572	214.7	6%	151	56.7	3%	4	1.5	18	6.8	266,442	
Genesee County	2,784	687.8	12%	1,710	422.4	11%	26	6.4	41	10.1	404,794	
Grand Traverse County	245	261.8	5%	41	43.8	5%	4	4.3	2	2.1	93,592	
Huron County	59	192.5	7%	10	32.6	0%	1	3.3	-	0.0	30,653	
Ingham County	1,679	577.8	9%	923	317.6	10%	33	11.4	48	16.5	290,609	
Ionia County	194	300.5	8%	55	85.2	2%	2	3.1	-	0.0	64,553	
Jackson County	696	443.5	10%	374	238.3	9%	9	5.7	32	20.4	156,920	
Kalamazoo County	1,927	724.5	11%	1,226	460.9	11%	29	10.9	32	12.0	265,988	
Kent County	3,341	507.2	9%	1,949	295.9	9%	37	5.6	105	15.9	658,708	
Lapeer County	148	168.9	2%	41	46.8	7%	2	2.3	7	8.0	87,635	
Lenawee County	245	250.5	3%	111	113.5	5%	1	1.0	5	5.1	97,808	
Livingston County	299	155.5	6%	67	34.8	7%	5	2,6	3	1.6	192,335	
Luce-Mack-Alger-School	46	135.0	7%	1	2.9	0%	-	0.0	2	5.9	34,084	
Macomb County	3,038	348.9	7%	1,437	165.0	9%	80	9.2	82	9.4	870,791	
Marguette County	207	314.4	6%	11	16.7	0%	-	0.0	1	1.5	65,834	
Midland County	163	195.3	6%	40	47.9	3%	1	1.2	1	1.2	83,441	
Mid-Michigan District	495	269.7	7%	156	85.0	5%	4	2.2	14	7.6	183,512	
Monroe County	401	266.3	7%	173	114.9	9%	1	0.7	7	4.6	150,568	
Muskegon County	1,339	770.1	13%	681	391.6	11%	3	1.7	9	5.2	173,883	
Northwest MI Com Hlth Agenc	179	166.3	7%	24	22.3	0%	-	0.0	7	6.5	107,661	
Oakland County	3,925	313.1	8%	1,713	136.7	7%	77	6.1	138	11.0	1,253,459	
Ottawa County	799	271.2	9%	200	67.9	3%	8	2.7	16	5.4	294,635	
Saginaw County	1,241	653.6	10%	749	394.5	10%	4	2.1	6	3.2	189,868	
Sanilac County	72	176.7	4%	11	27.0	9%	1	2.5	-	0.0	40,747	
Shiawassee County	168	248.0	7%	56	82.7	5%	6	8.9	4	5.9	67,738	
St Clair County	363	227.9	8%	142	89.1	4%	7	4.4	5	3.1	159,293	
Tuscola County	114	218.0	8%	18	34.4	6%	1	1.9	1	1.9	52,289	
Van Buren-Cass	372	292.8	5%	154	121.2	3%	4	3.1	9	7.1	127,058	
Washtenaw County	1,565	427.0	7%	619	168.9	9%	30	8.2	30	8.2	366,473	
Wayne LHD	3,957	368.0	8%	1,875	174.4	7%	71	6.6	96	8.9	1,075,254	
Detroit LHD ³	9,933	1492.9	10%	6,993	1051.0	10%	303	45.5	453	68.1	665,369	
Western UP District	134	206.4	8%	6,993	9.2	0%	303	1.5	455	1.5	64,907	
Total	44,833	449.8	9%	23,414	234.9	9 %	783	7.9	1,236	1.5 12.4	9,966,555	

^{1 -} P&S: Primary and Secondary Syphilis

 ^{2 -} Rate per 100,000 based on annual Census Bureau estimates from the American Community Survey (ACS)
3 - Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points, and Harper Woods.

STI Diagnoses by County, 2020

	Chlamydia				Gonorrhe	a	P&S Sy	philis	Latent S	Latent Syphilis	
	count	rate	Re-infected %	count	rate	Re-infected %	count	rate	count	rate	
Alcona County	14	133.3	7%	3	28.6	0%	_	-	-	0.0	
lger County	12	133.1	0%	_	0.0	0.0	_	_	1	11.1	
llegan County	327	275.0	8%	109	91.7	3%	2	1.7	9	7.6	
,	48	170.0	4%	7	24.8	0%	2	1.7	9	0.0	
Ipena County								-	-		
ntrim County	51	217.5	14%	10	42.6	0%	-	0.0	1	4.3	
renac County	34	227.4	6%	10	66.9	10%	-		-	0.0	
araga County	25	306.2	12%	-	0.0		-		-	0.0	
arry County	174	280.4	10%	38	61.2	3%	-	0.0	5	8.1	
ay County	331	323.3	9%	99	96.7	10%	2	2.0	2	2.0	
Senzie County	19	106.4	0%	1	5.6	0%	-	-	1	5.6	
errien County	784	512.3	10%	407	266.0	8%	3	2.0	6	3.9	
ranch County	107	246.4	7%	52	119.7	2%	-	-	-	0.0	
alhoun County	712	533.0	8%	473	354.1	6%	7	5.2	13	9.7	
ass County	138	267.5	1%	75	145.4	3%	2	-	-	0.0	
harlevoix County	45	172.4	11%	3	11.5	0%	-	-	2	7.7	
heboygan County	30	118.3	3%	8	31.5	0%	-	0.0	-	0.0	
hippewa County	68	184.0	3%	7	18.9	0%	1	2.7	2	5.4	
Clare County	60	195.0	5%	21	68.2	0%	-	0.0	2	6.5	
Clinton County	206	258.3	7%	56	70.2	5%	1	1.3	9	11.3	
rawford County	26	186.0	0%	8	57.2	0%	1	-	1	7.2	
elta County	49	137.6	2%	2	5.6	0%	-	-	1	2.8	
ickinson County	49	195.1	12%	2	8.0	0%	_	_	1	4.0	
,							7		6		
aton County	410	372.2	8%	178 8	161.6	7%	/	6.4		5.4	
nmet County	58	174.0	2%		24.0	0%	-	-	2	6.0	
enesee County	2,784	687.8	12%	1,710	422.4	11%	26	6.4	41	10.1	
ladwin County	37	145.5	5%	8	31.5	13%	1	-	1	3.9	
ogebic County	28	202.3	14%	1	7.2	0%	-	-	-	0.0	
rand Traverse Count	245	261.8	5%	41	43.8	5%	4	4.3	2	2.1	
iratiot County	106	263.1	8%	38	94.3	5%		-	1	2.5	
illsdale County	111	243.1	4%	72	157.7	6%	-	-	-	0.0	
oughton County	73	207.8	5%	5	14.2	0%	1	-	-	0.0	
luron County	59	192.5	7%	10	32.6	0%	1	-	-	0.0	
ngham County	1,679	577.8	9%	923	317.6	10%	33	11.4	48	16.5	
onia County	194	300.5	8%	55	85.2	2%	2	3.1	-	0.0	
sco County	58	230.7	3%	8	31.8	0%	-	-	-	0.0	
on County	19	171.7	5%	2	18.1	0%	-	-	1	9.0	
abella County	290	417.2	6%	69	99.3	9%	2	2.9	5	7.2	
ckson County	696	443.5	10%	374	238.3	9%	9	5.7	32	20.4	
alamazoo County	1,927	724.5	11%	1,226	460.9	11%	29	10.9	32	12.0	
Ikaska County	35	194.4	6%	3	16.7	0%		-	-	0.0	
nt County	3,341	507.2	9%	1,949	295.9	9%	37	5.6	105	15.9	
	3,341	188.8	0%	1,949	0.0	570	3/	5.6	105	0.0	
eweenaw County				-		00/	-				
ike County	21	181.2	5%	6	51.8	0%	-	-	13	112.2	
apeer County	148	168.9	2%	41	46.8	7%	2	2.3	7	8.0	
eelanau County	27	124.2	0%	4	18.4	0%	-	-	2	9.2	
enawee County	245	250.5	3%	111	113.5	5%	1	1.0	5	5.1	
ivingston County	299	155.5	6%	67	34.8	7%	5	2.6	3	1.6	
ice County	7	114.3	0%	-	0.0		-	-	-	0.0	

STI Diagnoses by County, 2020

	Chlamydia				Gonorrhe	a	P&S Sy	philis	Laten	t Syphilis	2020
	count	rate	Re-infected %	count	rate	Re-infected %	count	rate	count	rate	Population ²
Mackinac County	17	156.8	12%	1	9.2	0%	-	-	1	9.2	10,839
Macomb County	3,038	348.9	7%	1,437	165.0	9%	80	9.2	82	9.4	870,791
Manistee County	31	125.3	6%	5	20.2	0%	-	-	1	4.0	24,738
Marquette County	207	314.4	6%	11	16.7	0%	-	0.0	1	1.5	65,834
Mason County	55	188.6	7%	8	27.4	0%	1	-	1	3.4	29,164
Mecosta County	139	316.6	8%	38	86.5	3%	2	4.6	-	0.0	43,907
Menominee County	28	123.8	0%	3	13.3	0%	-	-	-	0.0	22,608
Midland County	163	195.3	6%	40	47.9	3%	1	1.2	1	1.2	83,441
Missaukee County	33	217.8	6%	15	99.0	0%	-	-	-	0.0	15,152
Monroe County	401	266.3	7%	173	114.9	9%	1	0.7	7	4.6	150,568
Montcalm County	183	288.3	7%	62	97.7	5%	3	-	4	6.3	63,476
Montmorency County	6	64.3	0%	-	0.0		1	10.7	-	0.0	9,337
Muskegon County	1,339	770.1	13%	681	391.6	11%	3	1.7	g	5.2	173,883
Newaygo County	94	190.5	4%	30	60.8	7%	-	-	1	2.0	49,348
Oakland County	3,925	313.1	8%	1,713	136.7	7%	77	6.1	138	11.0	1,253,459
Oceana County	61	227.5	5%	17	63.4	6%	-	-	1	3.7	26,819
Ogemaw County	32	152.9	3%	2	9.6	0%	1	-	-	0.0	20,923
Ontonagon County	4	70.7	0%	-	0.0		-	-	1	17.7	5,656
Osceola County	53	225.9	6%	9	38.4	0%	-	0.0	1	4.3	23,466
Oscoda County	8	95.6	0%	-	0.0		-	-	-	0.0	8,368
Otsego County	25	100.9	0%	3	12.1	0%	-	0.0	2	8.1	24,765
Ottawa County	799	271.2	9%	200	67.9	3%	8	2.7	16	5.4	294,635
Presque Isle County	29	229.0	0%	1	7.9	0%	-	-	-	0.0	12,665
Roscommon County	44	183.4	5%	8	33.4	0%	-	-	1	4.2	23,986
Saginaw County	1,241	653.6	10%	749	394.5	10%	4	2.1	ϵ	3.2	189,868
Sanilac County	72	176.7	4%	11	27.0	9%	1	2.5	-	0.0	40,747
Schoolcraft County	10	123.4	10%	-	0.0		-	-	-	0.0	8,104
Shiawassee County	168	248.0	7%	56	82.7	5%	6	-	4		67,738
St. Clair County	363	227.9	8%	142	89.1	4%	7	4.4	5		159,293
St. Joseph County	175	287.6	6%	94	154.5	7%	1	1.6	2	3.3	60,848
Tuscola County	114	218.0	8%	18	34.4	6%	1	-	1	1.9	52,289
Van Buren County	234	310.0	7%	79	104.7	4%	2	2.6	9	11.9	75,474
Washtenaw County	1,565	427.0	7%	619	168.9	9%	30	8.2	30	8.2	366,473
Wayne County	4,539	422.1	8%	2,283	212.3	8%	86	8.0	120		1,075,254
Detroit City	9,351	1405.4	11%	6,585	989.7	10%	288	43.3	429		665,369
Wexford County	77	228.2	6%	21	62.2	5%	-	-	-	0.0	33,743
Total	44,833	449.8	9%	23,414	234.9	9%	783	7.9	1,236	12.4	9,966,555

^{1 -} P&S: Primary and Secondary Syphilis2 - Rate per 100,000 based on annual Census Bureau estimates from the American Community Survey (ACS)